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OM protein - protein search, using sw model

Run on: November 30, 2002, 12:29:03 ; Search time 9.25373 Seconds
(without alignments)
1066.922 Million cell updates/sec

Title: US-10-054-680-4
Perfect score: 3228
Sequence: 1 MAMLRQLPLTSAFLHFGVLT.....ADYGRGGGSDSRGKASIG 620

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 102317 seqs, 15924203 residues

Total number of hits satisfying chosen parameters: 102317

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

1: Published_Applications_AA:*
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14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3228	100.0	620	US-10-054-680-4	Sequence 4, Appl1
2	3093	95.8	921	US-09-804-474A-2	Sequence 2, Appl1
3	3093	95.8	921	US-10-054-680-2	Sequence 2, Appl1
4	3016	93.4	927	US-09-804-474A-4	Sequence 4, Appl1
5	2147.5	66.5	970	US-09-901-419-2	Sequence 2, Appl1
6	2143.5	66.4	609	US-09-864-761-33429	Sequence 33429, A
7	203.5	6.3	661	US-10-094-214-5	Sequence 5, Appl1
8	180.5	5.6	603	US-09-961-679-2	Sequence 2, Appl1
9	116.5	3.6	584	US-10-094-214-2	Sequence 2, Appl1
10	113.5	3.5	152	US-10-094-214-4	Sequence 4, Appl1
11	99.5	3.1	569	US-09-931-147-2	Sequence 2, Appl1
12	97.5	3.0	316	US-09-961-679-4	Sequence 4, Appl1
13	97.5	3.0	353	US-09-961-679-6	Sequence 6, Appl1
14	95	2.9	420	US-09-844-006A-2	Sequence 2, Appl1
15	95	2.9	591	US-09-815-242-5662	Sequence 5662, Ap
16	93.5	2.9	1381	US-09-930-871-8	Sequence 8, Appl1
17	93.5	2.9	1387	US-09-930-871-10	Sequence 10, Appl1
18	93.5	2.9	1392	US-09-930-871-18	Sequence 18, Appl1
19	93.5	2.9	1398	US-09-930-871-20	Sequence 20, Appl1

20	93.5	2.9	1442	10	US-09-930-871-6	Sequence 6, Appl1
21	93.5	2.9	1453	10	US-09-930-871-16	Sequence 16, Appl1
22	93.5	2.9	1962	10	US-09-930-871-4	Sequence 4, Appl1
23	93.5	2.9	1973	10	US-09-930-871-14	Sequence 14, Appl1
24	93.5	2.9	1998	10	US-09-930-871-2	Sequence 2, Appl1
25	93.5	2.9	2009	10	US-09-930-871-12	Sequence 12, Appl1
26	91.5	2.8	431	10	US-09-862-767A-8	Sequence 8, Appl1
27	91.5	2.8	436	10	US-09-862-767A-4	Sequence 4, Appl1
28	91.5	2.8	631	10	US-09-862-767A-2	Sequence 2, Appl1
29	91.5	2.8	684	10	US-09-815-242-10712	Sequence 10712, A
30	91	2.8	475	10	US-09-815-242-10052	Sequence 10052, A
31	90	2.8	497	10	US-09-892-325-4	Sequence 4, Appl1
32	90	2.8	500	10	US-09-883-797-12	Sequence 12, Appl1
33	89.5	2.8	1052	10	US-09-060-854B-7	Sequence 7, Appl1
34	89.5	2.8	1052	10	US-09-891-711-4	Sequence 4, Appl1
35	88.5	2.7	1202	10	US-09-864-761-43061	Sequence 43061, A
36	88	2.7	2000	12	US-10-010-901-29	Sequence 29, Appl1
37	86.5	2.7	358	10	US-09-823-356-6	Sequence 6, Appl1
38	86.5	2.7	358	10	US-09-740-027-4	Sequence 4, Appl1
39	86	2.7	358	10	US-09-862-767A-6	Sequence 6, Appl1
40	86	2.7	773	10	US-09-815-242-11330	Sequence 11330, A
41	86	2.7	777	10	US-09-815-242-4894	Sequence 4894, Ap
42	86	2.7	914	10	US-09-815-242-10897	Sequence 10897, A
43	85	2.6	340	10	US-09-740-027-2	Sequence 2, Appl1
44	85	2.6	2923	10	US-09-788-711A-4	Sequence 4, Appl1
45	85	2.6	2956	10	US-09-788-711A-2	Sequence 2, Appl1

ALIGNMENTS

RESULT 1
US-10-054-680-4
; Sequence 4, Application US/10054680
; Patent No. US20020132998A1
; GENERAL INFORMATION:
; APPLICANT: Fiddle, Carl Johan
; APPLICANT: Hilbun, Erin
; TITLE OF INVENTION: Same
; TITLE OF INVENTION: Same
; FILE REFERENCE: LEX-0301-USA
; CURRENT APPLICATION NUMBER: US/10/054, 680
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: US 60/263, 384
; PRIOR FILING DATE: 2001-01-23
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 620
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-054-680-4

Query Match	100.0%	Score 3228	DB 12	Length 620
Best Local Similarity	100.0%	Pred. No. 3	7e-294	
Matches 620	Conservative	0	Mismatches	0
			Indels	0
			Gaps	0
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DB	1	MAMLRQLPLTSAFLHFGVLTFLNGLRAEAGSGDVSTGONNESCSSDCKEGVIL	60	
OY	61	PLWYENPISLGIKIRAVIYFVALIYMFGLSVIINDRFASIEVITSQREYTIKPNKE	120	
DB	61	PLWYENPISLGIKIRAVIYFVALIYMFGLSVIINDRFASIEVITSQREYTIKPNKE	120	
OY	121	TSTTIRVWNEVSNLTALGSSAPEILSLIEVCGHGFINGDAPSTIVGSAFNMPI	180	
DB	121	TSTTIRVWNEVSNLTALGSSAPEILSLIEVCGHGFINGDAPSTIVGSAFNMPI	180	
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Db 301 LVPLEGKEVDESREMIIRILKDKQKHPKEDLDQVEMANYALSHQOKSRAFYRIQATR 360
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Db 361 MMTGAGNIIKKHAAEQAKKASSMEVHTDEPEDFISKVFEDPCSYOCLENCGAVLLTVVR 420
Qy 421 KGGDSKMTVMVDYKTEGDSANAGADYETEGTVVLKPGETQKEFSVGIIDDDIIFEEDHF 480
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Qy 481 FVLSNVRIEEDQPEEGMPAIFNSLPLPRAVLASPCVATVTLLDDHAGIETFECDTIH 540
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Db 481 FVLSNVRIEEDQPEEGMPAIFNSLPLPRAVLASPCVATVTLLDDHAGIETFECDTIH 540
Qy 541 VSESIGMEVKVLRITSGARGTIVPRVTEGTAKGGGDEPDYTGLEFRKNDETV 600
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Db 601 ADYGRRGQEDSDHDKASIG 620
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RESULT 2
US-09-804-474A-2
; Sequence 2, Application US/09804474A
; Patent No. US20020119518A1
; GENERAL INFORMATION:
; APPLICANT: KODET, Stefan et al
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: NOCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
; FILE REFERENCE: AND USES THEREOF
; FILE REFERENCE: CLO000891
; CURRENT APPLICATION NUMBER: US/09/804,474A
; CURRENT FILING DATE: 2001-03-13
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 921
; TYPE: prt
; ORGANISM: Human
US-09-804-474A-2
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Best Local Similarity 100.0%; Pred. No. 3e-281;
Matches 595; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 3
US-10-054-680-2
; Sequence 2, Application US/10054680
; Patent No. US20020132998A1
; GENERAL INFORMATION:
; APPLICANT: Fiddle, Carl Johan
; APPLICANT: Hilbun, Erin
; TITLE OF INVENTION: No. US20020132998A1el Human Ion Exchanger Proteins and Polynuc
; TITLE OF INVENTION: Same
; FILE REFERENCE: LEX-0301-USA
; CURRENT APPLICATION NUMBER: US/10/054,680
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: US 60/263,384
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 921
; TYPE: prt
; ORGANISM: homo sapiens
US-10-054-680-2
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Query Match          95.8%; Score 3093; DB 12; Length 921;
Best Local Similarity 100.0%; Pred. No. 3e-281;
Matches 595; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 4

US-09-804-474A-4
; Sequence 4, Application US/09804474A
; Patent No. US20020119518A1
; GENERAL INFORMATION:
; APPLICANT: KODET, Stefan et al
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
; FILE REFERENCE: CLO00891
; CURRENT APPLICATION NUMBER: US/09/804,474A
; PRIORITY FILING DATE: 2001-03-13
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 927
; TYPE: PRT
; ORGANISM: Rat
US-09-804-474A-4

Query Match

Best Local Similarity 93.4%; Score 3016; DB 10; Length 927;
Matches 578; Conservative 8; Mismatches 9; Indels 0; Gaps 0;

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Db 61 PIWYENPSLGDRIARIVYFVALIYFGLVSIIDRFMAISIEVTSQREVTIKKPGE 120
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Db 121 TSTTIRVWNETVSNLTLALGSSAPEILLLEVCGHGFIAGDLGPSTIVGSAFNMFI 180
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Db 181 IIGTCVYVYIPDGETRIKIKHLRFVFTTAWSIFAATWILAVSPGVVOWEGLTLTF 240
Qy 241 IIGTCVYVYIPDGETRIKIKHLRFVFTTAWSIFAATWILAVSPGVVOWEGLTLTF 240
Db 241 IIGTCVYVYIPDGETRIKIKHLRFVFTTAWSIFAATWILAVSPGVVOWEGLTLTF 240
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Db 241 FPPVCVLLAMVADKRLFLFYKMHKKYRTDKHSGIIEETGDDHKGILEMDGKMNSHFLDGN 300
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Db 301 LVPLEGEVDESRRMIRILDOKHPEKIDQLVEMANYALSHOQSRAFYRIQATR 360
Qy 361 MMTGAGNLLKHAADAKKASSMSSEVHDEDEPDISKYVEFPDPCSYOCLENGCAVLLTVR 420
Db 361 MMTGAGNLLKHAADAKKASSMSSEVHDEDEPDISKYVEFPDPCSYOCLENGCAVLLTVR 420
Qy 421 KGGDSKTMVYDYKTEDGSANAGADYEFTGTVLKPGETOKESFGIIDDIDFEEDEHF 480
Db 421 KGGDSKTMVYDYKTEDGSANAGADYEFTGTVLKPGETOKESFGIIDDIDFEEDEHF 480
Qy 481 FVRLSNVRIEEBQPEEGMPAIFNSLPLPRAVLASPCVATVITLDDHAGIFTECDTIH 540
Db 481 FVRLSNVRIEEBQPEEGMPAIFNSLPLPRAVLASPCVATVITLDDHAGIFTECDTIH 540

Db 481 FVRLSNVRIEEBQPEEGMPAIFNSLPLPRAVLASPCVATVITLDDHAGIFTECDTIH 540
Qy 541 VSESIGVMEVKVLRISGARGTVIVPRVEGTAKGGEGDEFDYGELEKNDETV 595
Db 541 VSESIGVMEVKVLRISGARGTVIVPRVEGTAKGGEGDEFDYGELEKNDETV 595

RESULT 5

US-09-901-419-2
; Sequence 2, Application US/09901419
; Patent No. US20020069421A1
; GENERAL INFORMATION:
; APPLICANT: The Curators of the University of Missouri
; TITLE OF INVENTION: LARGE SCALE EXPRESSION AND PURIFICATION OF RECOMBINANT
; TITLE OF INVENTION: PROTEINS
; FILE REFERENCE: UMO1531.1
; CURRENT APPLICATION NUMBER: US/09/901,419
; PRIORITY FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: 60/216,125
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 970
; TYPE: PRT
; ORGANISM: Bos taurus
US-09-901-419-2

Query Match

Best Local Similarity 66.5%; Score 2147.5; DB 10; Length 970;
Matches 422; Conservative 74; Mismatches 91; Indels 21; Gaps 8;

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Qy 59 PIWYENPSLGDRIARIVYFVALIYFGLVSIIDRFMAISIEVTSQREVTIKKPGE 118
Db 59 PIWYENPSLGDRIARIVYFVALIYFGLVSIIDRFMAISIEVTSQREVTIKKPGE 116
Qy 117 GETTQTVIRVWNETVSNLTLALGSSAPEILLLEVCGHGFIAGDLGPSTIVGSAFNM 176
Db 117 GETTQTVIRVWNETVSNLTLALGSSAPEILLLEVCGHGFIAGDLGPSTIVGSAFNM 176
Qy 179 IIGTCVYVYIPDGETRIKIKHLRFVFTTAWSIFAATWILAVSPGVVOWEGLTLTF 238
Db 179 IIGTCVYVYIPDGETRIKIKHLRFVFTTAWSIFAATWILAVSPGVVOWEGLTLTF 236
Qy 239 FPPVCVLLAMVADKRLFLFYKMHKKYRTDKHSGIIEETGDDHKGILEMDGKMNSH 295
Db 239 FPPVCVLLAMVADKRLFLFYKMHKKYRTDKHSGIIEETGDDHKGILEMDGKMNSH 296
Qy 296 ---FLDGNLVPLEGEVD---ESRREMTIRILDKHPEKIDQLVEMANYALSHOQ 348
Db 296 VDSFLDGNLVPLEGEVD---ESRREMTIRILDKHPEKIDQLVEMANYALSHOQ 355
Qy 349 KSRATYRIQATRTMTGAGNLLKHAADAKKASSMSSEVHDEDEPDISKYVEFPDPCSYOC 407
Db 349 KSRATYRIQATRTMTGAGNLLKHAADAKKASSMSSEVHDEDEPDISKYVEFPDPCSYOC 415
Qy 408 LENCAGVLLTVRKGDSKTMVYDYKTEDGSANAGADYEFTGTVLKPGETOKESFGI 467
Db 408 LENCAGVLLTVRKGDSKTMVYDYKTEDGSANAGADYEFTGTVLKPGETOKESFGI 475
Qy 475 LENCAGVLLTVRKGDSKTMVYDYKTEDGSANAGADYEFTGTVLKPGETOKESFGI 475
Db 475 LENCAGVLLTVRKGDSKTMVYDYKTEDGSANAGADYEFTGTVLKPGETOKESFGI 475
Qy 476 IIDDIDFEEDEHFVRLSNVRIEEBQPEEGMPAIFNSLPLPRAVLASPCVATVITLDD 527
Db 476 IIDDIDFEEDEHFVRLSNVRIEEBQPEEGMPAIFNSLPLPRAVLASPCVATVITLDD 532
Qy 528 HAGITFEEDTIHVESIGVMEVKVLRISGARGTVIVPRVEGTAKGGEGDEFDYGELE 587
Db 528 HAGITFEEDTIHVESIGVMEVKVLRISGARGTVIVPRVEGTAKGGEGDEFDYGELE 592
Qy 588 EFKNDETV 595

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